INTERNATIONAL SEARCH REPORT

int tional Application No PCT/GB2004/003511

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08B37/00 C07K C07K17/12 A61K47/48 A61K39/385 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C08B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data, BIOSIS, EMBASE, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. 1,2,5-7, X EP 0 454 898 A (SEIKAGAKU KOGYO CO LTD) 10-19, 6 November 1991 (1991-11-06) cited in the application 21-31 Α claims 7,9 3,4,8,9, 20 page 5, lines 22-46 US 4 356 170 A (JENNINGS HAROLD J ET AL) 1,2,5-7,X 26 October 1982 (1982-10-26) 10-19. 21-31 cited in the application 3,4,8,9, Α claims 1,2,4,6-8,16 20 column 3, lines 8-39 column 4, lines 27-44 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *Y* document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled *O' document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 12/11/2004 5 November 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Gerber, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
US 5 097 020 A (ANDERSON PORTER W ET AL) 17 March 1992 (1992-03-17) A column 4, lines 22-62 column 2, line 7	1,2,5-7, 10-19, 21-31 3,4,8,9, 20
column 3, lines 63-65 SEN G ET AL: "The specificity of the binding site of AchatininH, a sialic acid-binding lectin from Achatina fulica" 1 March 1995 (1995-03-01), CARBOHYDRATE RESEARCH, ELSEVIER SCIENTIFIC PUBLISHING COMPANY. AMSTERDAM, NL, PAGE(S) 115-125, XP004022107	32-34, 36-45
ISSN: 0008-6215 *0-deacetylation of BSM on page 117* *Periodate oxidation of glycoproteins on page 117*	35
	
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-31

Claims 1-18

Process for producing an aldehyde derivative of a sialic acid compound in which a starting material having a sialic acid at the reducing terminal unit is subjected to:
a)— reduction to form a vicinal diol group,
b)— selective oxidation to oxidise the vicinal diol group formed in step a) to form an aldehyde group.
Claims 19-29

Aldehyde derivative of a di-, oligo- or polysaccharide comprising at least one sialic acid unit. Claims 30

Composition comprising a compound according to claim 19-29 and a diluent.

Claim 31
Pharmaceutical composition comprising a compound according to claims 25 or 28 and a pharmaceutically acceptable

2. claims: 32-45

excipient.

Claims 32-37

Process in which a sialic acid starting material having a terminal sialic acid unit at a non-reducing terminal end is subjected to:

c)- selective oxidation to form an aldehyde group,

d)- reduction to reduce the aldehyde to the corresponding alcohol.

Claims 38-43

Compound of formula II being a derivative of mono-, di-, oligo- or polysaccharide.

Claim 44

Pharmaceutical composition comprising a compound according to claim 43 and a pharmaceutically acceptable excipient. Claim 45

Composition comprising a compound according to claims 38-43 and a diluent.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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